

Sophia Cofone

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PROFESSIONAL SUMMARY

Data Science graduate student. Background in data visualization and business administration with experience in statistical data analysis. Proficient in Python, Javascript, and Git.

EDUCATION

Northeastern University - Khoury College of Computer Sciences, Roux Institute - Portland, ME

Masters of Science in Data Science Candidate, GPA 3.9/4.0

Expected Spring 2024

Coursework: Discrete Mathematics, Programming for DS, Linear Algebra and Probability, Algorithms, Statistical Learning

University of Massachusetts Amherst - Isenberg School of Management, Amherst, MA

Bachelor of Business Administration in Accounting (Minor: Philosophy), GPA 3.9/4.0

Graduated Spring 2020

TECHNICAL KNOWLEDGE

Python • Javascript • Git • Tableau • SQL

HIGHLIGHTED PROJECTS

Bayes' Rule Visualization using Spotify data

November -

December 2021

github.com/sophiacofone/Bayes-Rule-Visualization-Spotify

- Designed a program which applies Bayesian model inference to a theoretical biased-coin experiment, and a “real-world” scenario using user generated Spotify data
- Produced visualizations demonstrating the posterior result, including how the original prior shifts given new experimental information
- Leveraged the numpy, matplotlib, and scipy packages to support my calculations and create the visualizations

Vaccines Project and Maine Broadband Project

Spring 2022

ds5010.github.io/broadband • github.com/ds5010/broadband • ds5010.github.io/vaccines • github.com/ds5010/vaccines

- Co-managed two class projects by reviewing code/merge requests, developing time-lines, and delegating tasks
- Executed exploratory data analysis by cleaning data, merging together several data sources, and visualizing data
- Refined the “story” of the data via communication with external stakeholders
- Produced animated visualizations and contributed to the project website design using HTML, CSS, and JS

WORK EXPERIENCE

Omnic Data, Brunswick, ME

August 2022 - September 2022

Software Assist

- Created interactive, user-customizable data visualizations (such as histograms, dendrograms, and heatmaps) in Javascript & D3 to present actionable insights the user can apply to improve their esports gameplay
- Implemented the visualizations into the web application, including the creation of views, controllers, and database queries using Ruby and ActiveRecord
- Built data pipelines in javascript to transform raw data to a usable form for specific visualization applications
- Researched the needs of the user, and incorporated stakeholder feedback, into future iterations of the visuals

PricewaterhouseCoopers, Boston, MA

September 2020 -

June 2021

Experienced Associate - ESG (Environmental, Social, Governance) & Process Assurance

- Analyzed ESG standards (e.g. SASB) and rating agency methods (e.g. MSCI, ISS, TCFD) to identify steps clients should take to elevate ESG reporting, including resource allocation
- Created custom ESG metrics based on stakeholder interviews to identify key data areas for clients to track over time
- Produced data visualizations to provide high-level view of material ESG topics relative to client's industry
- Owned the creation, documentation, and testing of new IT areas such as database access reviews
- Reviewed client internal audit and PwC associate IT control testing to ensure completeness and accuracy
- Communicated daily with clients during fieldwork to gain deeper understanding of audit areas and resolve issues